

IN THE SPECIFICATION

Please amend the paragraph beginning at page 8, lines 7-15, as shown below:

When using the above-described detector modules 1 as the polygon-type semiconductor detector for use in a high-speed X-ray CT, a plurality of the detector modules 1 is polygonally arranged along the circumference 11 around the measured section at the measuring area 10, and a plurality of X-ray sources (e.g., 12a and 12b) are arranged along an outer circumference. ~~one~~ One of X-ray sources 12 ~~which radiates~~ radiate X-ray beams 13 to the measuring area 10 is placed slightly below the detector plane (Figure 3). This allows detection pixels 4 having mutually homogeneous characteristics to be arranged around the measuring area 10 at a minute pitch.